SC-610
Flip flop relay without memory
SC-611
Flip flop relay with memory

SLIMLINE
MONITORING RELAYS

ORDERING CODE

TYPE	MODEL	VOLTAGE	POWER SUPPLY	RELAY CONTACTS
SC	610	230V	AC	SP

SEE PAGE 94 FOR ORDERING OPTIONS

Application Examples

- The direction control of conveyor lines.
- The re-directon of counting pulses to a counter.
- Change-over control for duty cycling of pumps.
- Generator set battery cycling during start-up.

Features

- Many power supply options.
- Direct connection of a NPN sensor (SC-611)
- 10A SPDT or a 5A DPDT relay.

Description of Operation

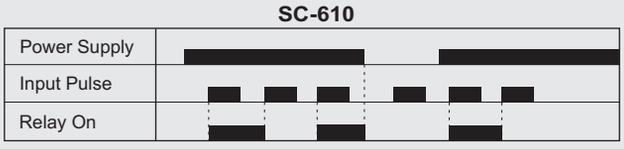
The unit is ready to operate when power is connected to pins 2 and 10.

SC-610 (Without memory): On power-up the relay will be de-energised. When an input is received between pins 5 and 7 the relay will energise. On each subsequent input received, the relay will change its state (toggle). When power is removed, the relay will de-energise.

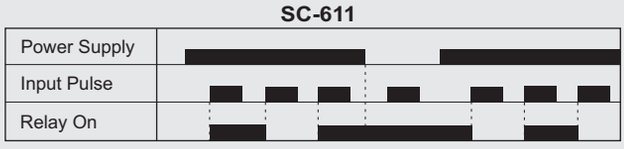
SC-611 (With memory): On power-up the relay will be in the state it was in when power was removed. Each input received subsequently on pin 5 and 7 will cause the relay to change its state (toggle). When power is removed the relay remains in its last state.

Operational Diagrams

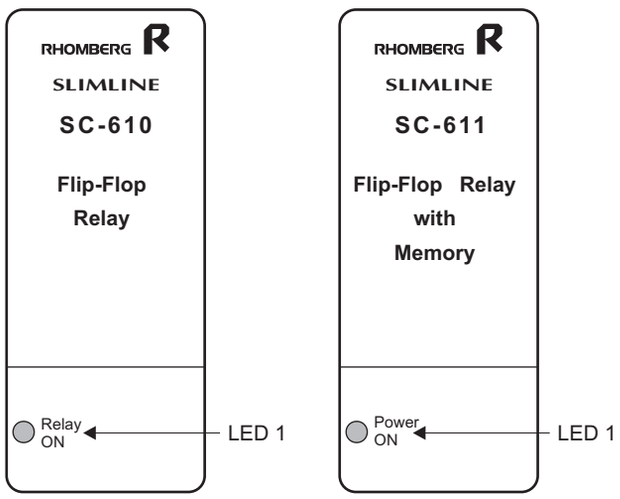
SC-610



SC-611



Description of Controls



LED1: **SC-610:** The LED will illuminates when the relay is on.

SC-611: The LED will illuminate when power is applied to unit.

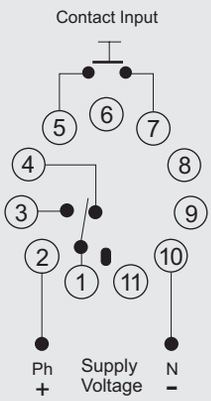
Wiring and Connection

Power Supply	
Phase/Positive	2
Neutral/Negative	10

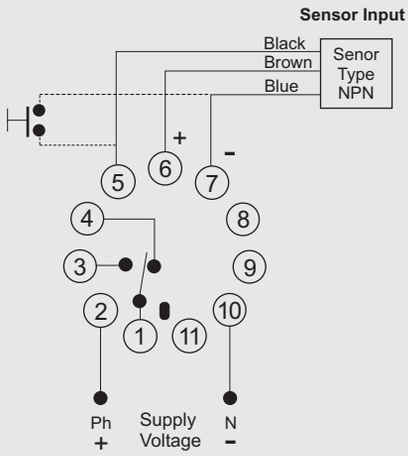
Relay Contacts	
Normally open	1+3
Normally closed	1+4

Pulse Input (SC-610)
Connect contact between pin 5 and pin 7.

Pulse Input (SC-611)
Connect positive lead (brown) to pin 6. Connect NPN output lead (black) to pin 5. Connect negative lead (blue) to pin 7.



SC-610/SC-611



SC-611

Note: *For further information on sensors refers to our Detechtor catalogue.*

Technical Specifications

POWER SUPPLY

AC: Supply voltage: 12, 24, 110, 230, 400, ±15%
Isolation (reset to power supply): 2kV
Power consumption: 3VA (approx.)

DC: Supply voltage: 12, 24, 48, 60,110V ±15%
Isolation: no galvanic isolation
Power consumption: 100mA for 12V and 24V
30mA for 48V and higher

INPUT

SC-610	SC-611
Short circuit current: 8.5mA	Short circuit current: 1mA
Open Circuit Voltage: 8.2V	Open Circuit Voltage: 8.2V
Input reset speed: 20 millisecs.	Input reset speed: 10 millisecs.

12V DC Output:
Voltage tolerance: 10-15V DC.
Source Current: 50mA (max.).

Additional information in Section J, page 131.